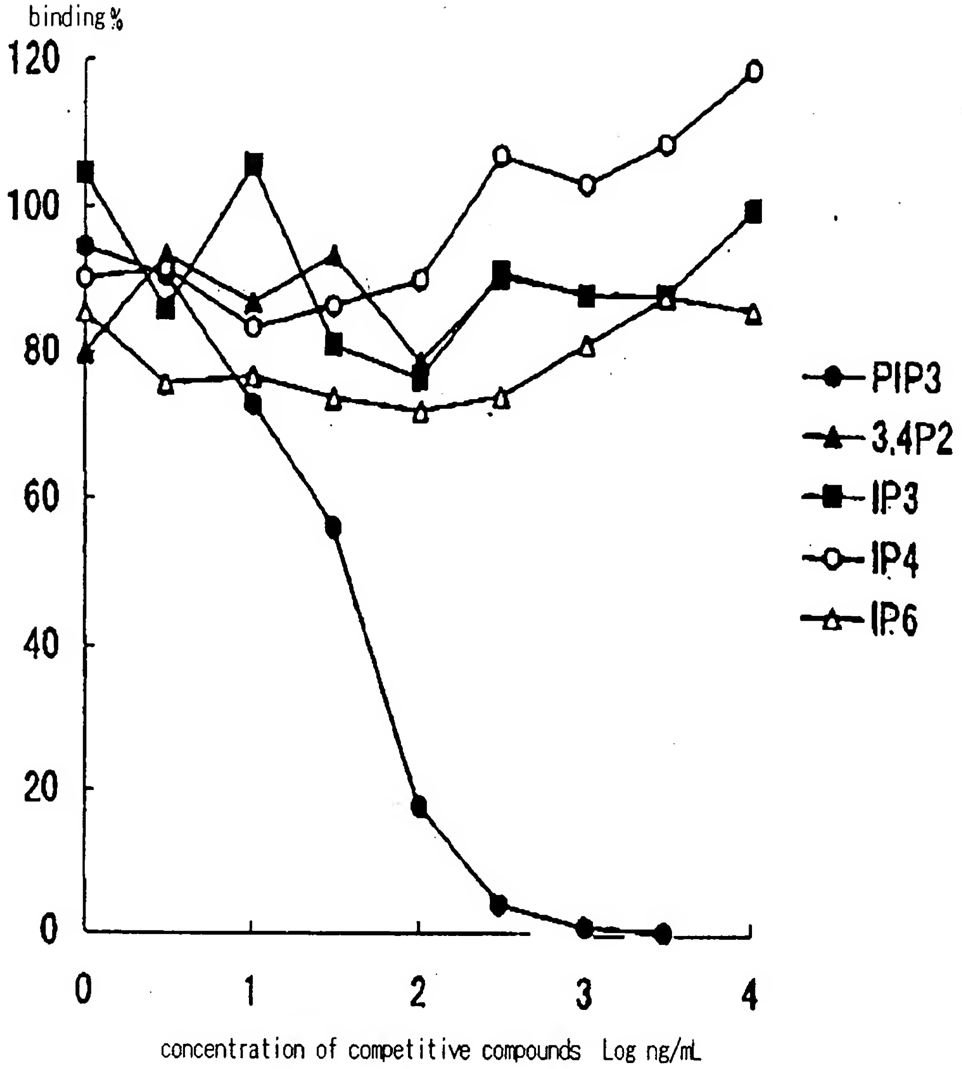
Fig.1



10007290.111301

Fig.2

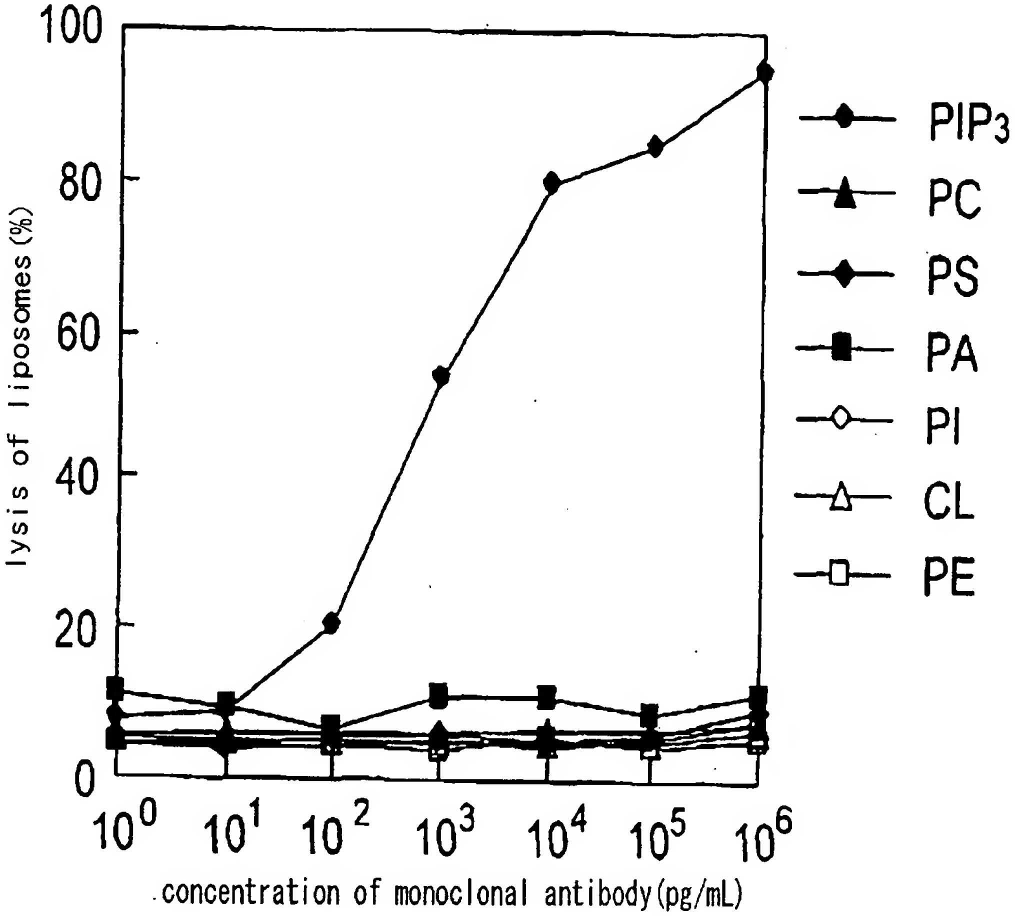

100
80
60
40
20
0
lysis of liposomes (%)
10^0
10^1
10^2
10^3
10^4
10^5
10^6
concentration of monoclonal antibody (pg/mL)
PIP3
PC
PS
PA
PI
CL
PE

Fig.3

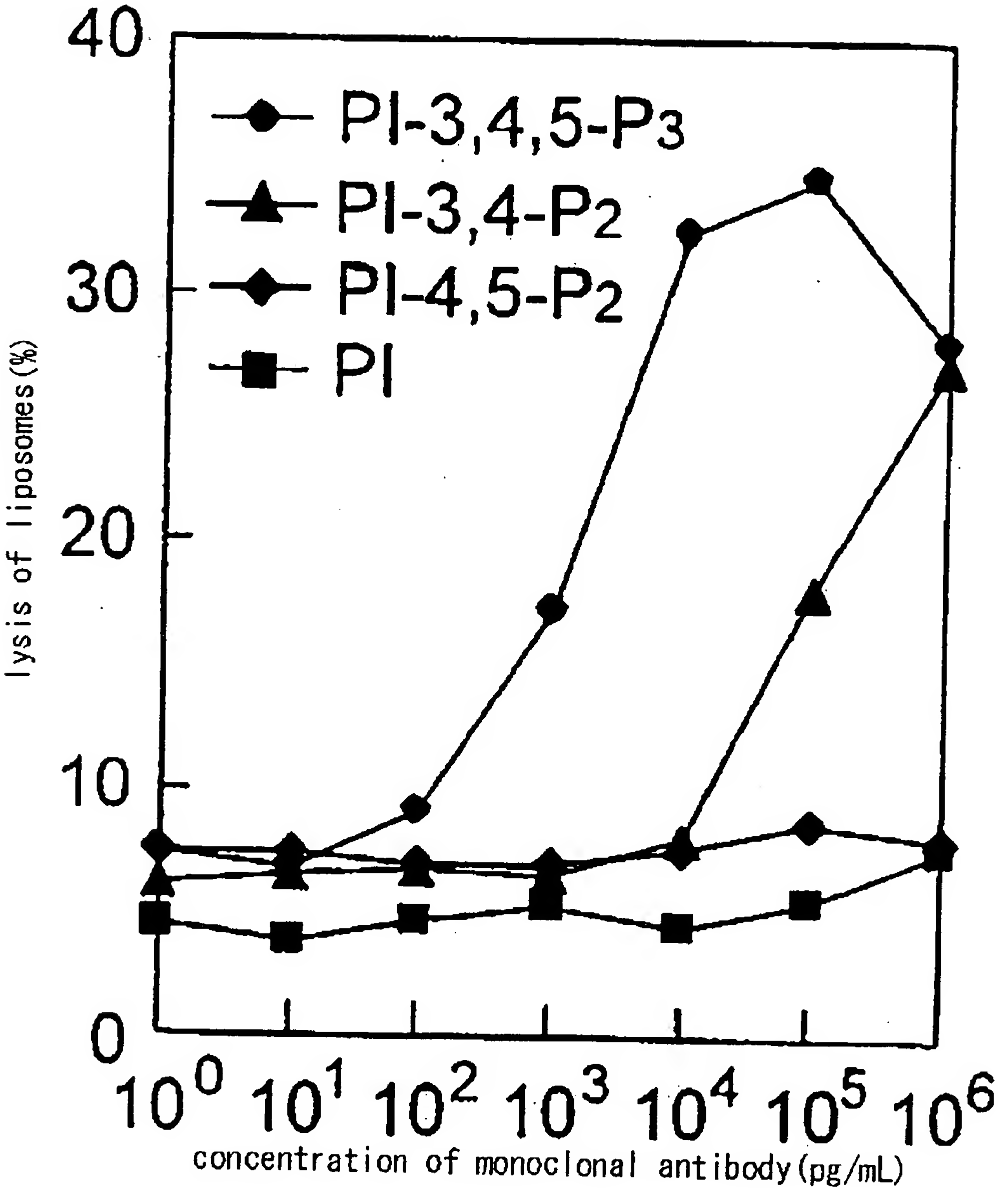

40
30
20
10
0
lysis of liposomes(%)
PI-3,4,5-P3
PI-3,4-P2
PI-4,5-P2
PI
10^0
10^1
10^2
10^3
10^4
10^5
10^6
concentration of monoclonal antibody(pg/mL)

Fig.4

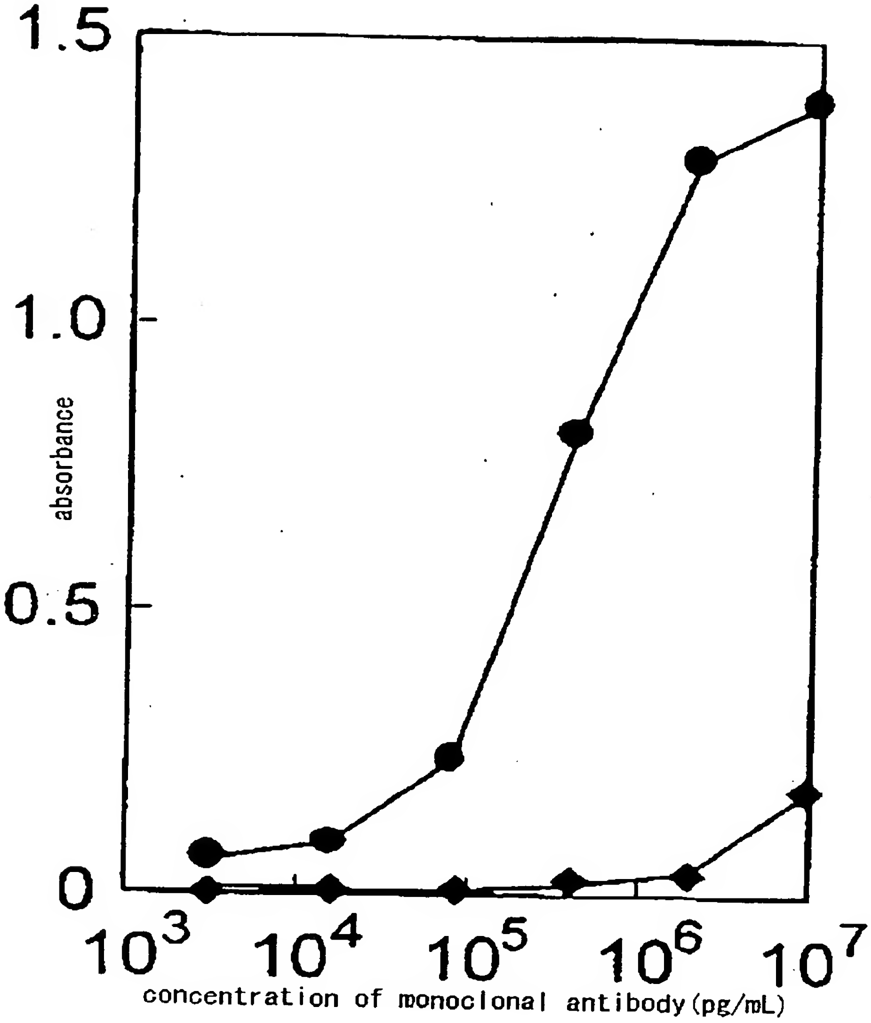
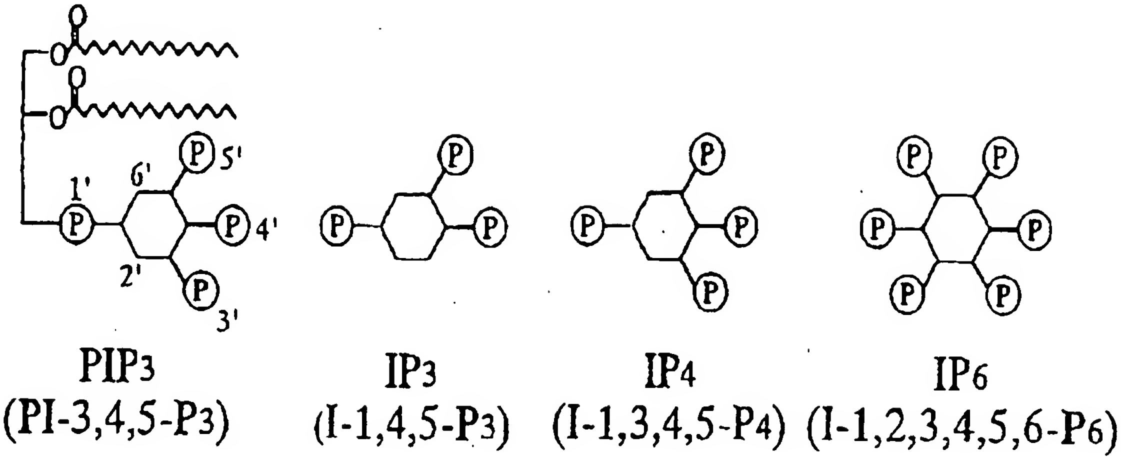
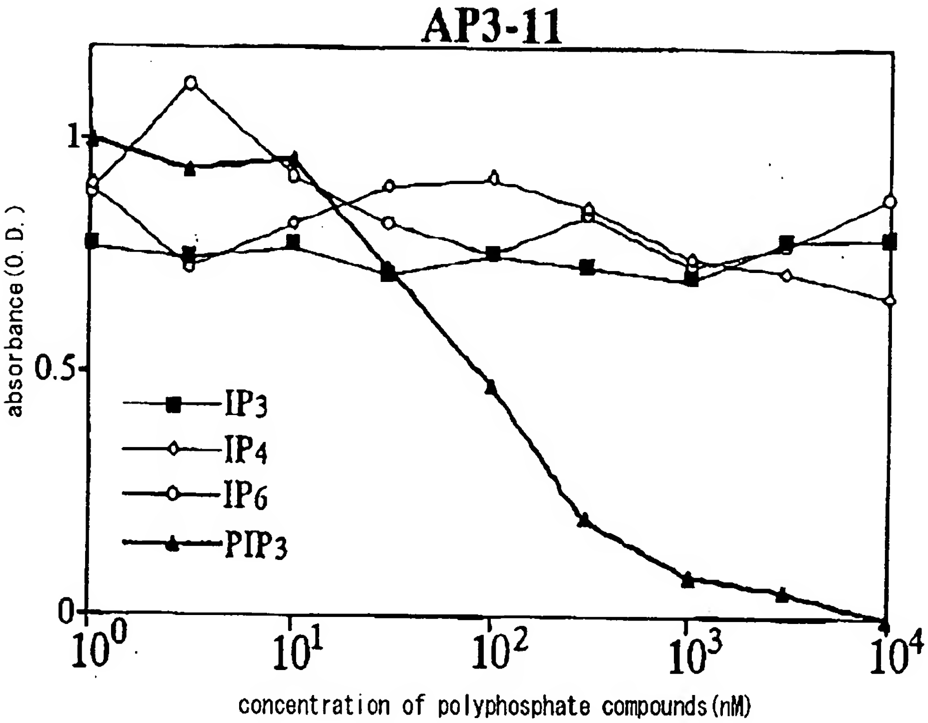

1.5
1.0
0.5
0
absorbance
10^3
10^4
10^5
10^6
10^7
concentration of monoclonal antibody (pg/mL)

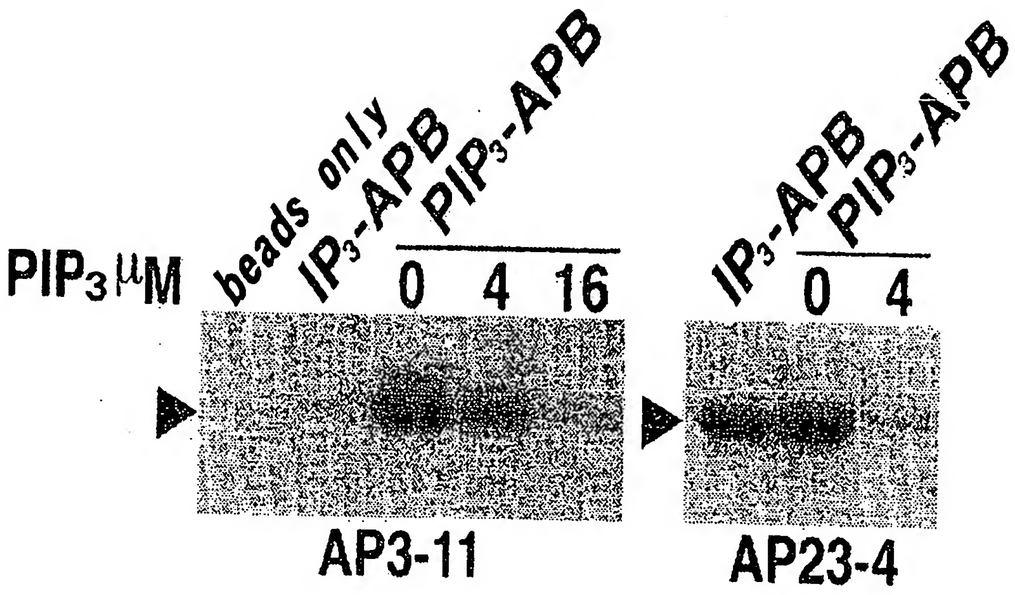
Fig.5


5'
6'
1'
4'
2'
3'
P
PIP3
(PI-3,4,5-P3)
IP3
(I-1,4,5-P3)
IP4
(I-1,3,4,5-P4)
IP6
(I-1,2,3,4,5,6-P6)



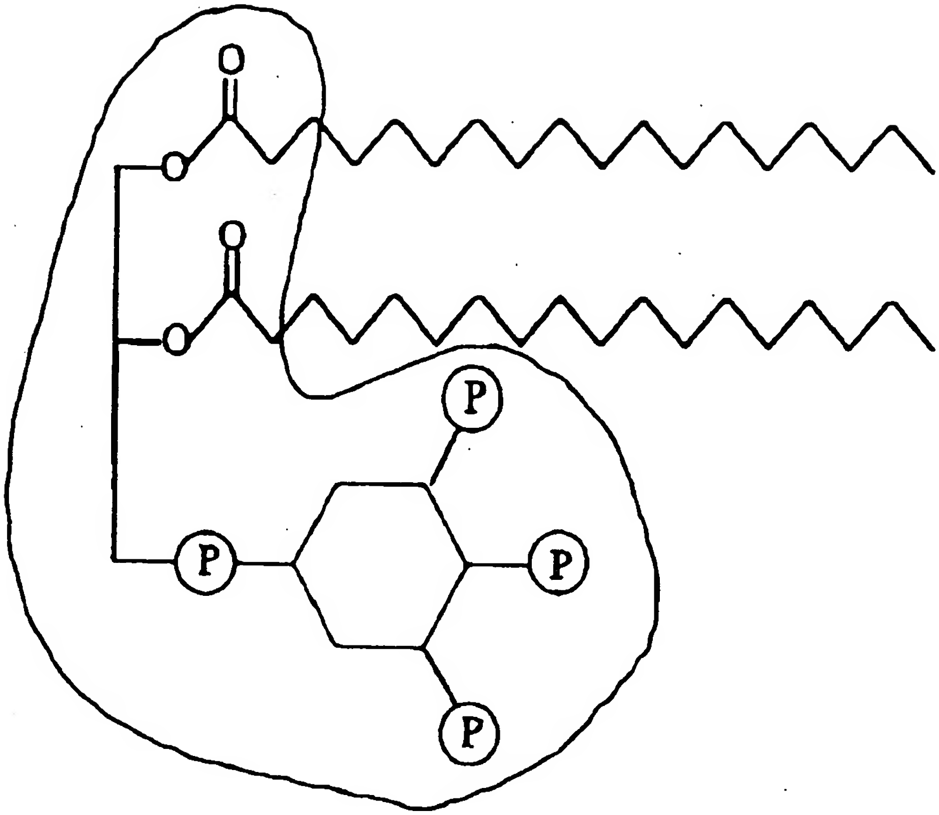
10007590.111301

Fig.6


PIP3 μM
beads only
IP3-APB
PIP3-APB
0
4
16
AP3-11
IP3-APB
PIP3-APB
0
4
AP23-4

10007790.111301

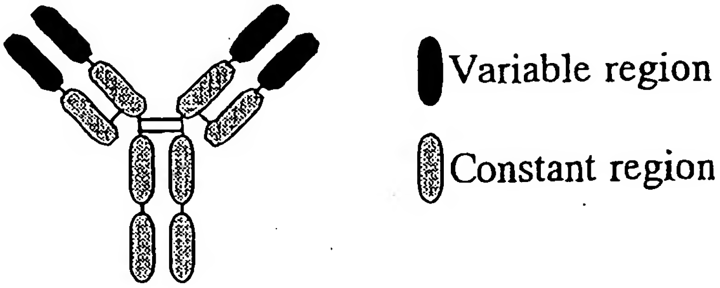
Fig.7



10007290.111301

Fig.8

Amino acid Sequence of AP3-11 variable regions



Light Chain Variable Region

CDR L1
DIQMTQSPASLSASVGETVTITCRASENIYSYLPWYQQ

CDR L2
NQGKSPQLLVYNAKTLTEGVPSRFSGSGSGTQFSLKIN

CDR L3
SLQPEDFGSYYCQHHYGTPYTFGGGTKLEIK

Heavy Chain Variable Region

CDR H1
EVQLQQSGPEVVKTGASVKISCKASGYSFTGYYMHWV

CDR H2
KQSHGKSLEWIGYISCYNAATRYNQKFKGKATFTVDTS

CDR H3
SSTAYMQFNSLTSEDSAVYYCARSGAYYRYGVVYWGQ

GTLVTVSAATTT